



Atty. Dkt. No. 017446-0335

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Nahoko TAKANO et al.

Title: MOBILE COMMUNICATION SYSTEM, MOBILE STATION,  
BASE STATION, AND PACKET COMMUNICATION METHOD  
USED THEREFOR

Appl. No.: 10/689,509

Filing Date: 10/21/2003

Examiner: Prenell P. Jones

Art Unit: 2616

Confirmation 8654

Number:

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56.

A copy of each non-U.S. patent document and each non-patent document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the mailing date of the foreign office communication.

**RELEVANCE OF EACH DOCUMENT**

The documents listed on the attached PT0/SB/08 were cited as being relevant during the prosecution of the corresponding Japanese application. A partial English translation of the Japanese Office Action of September 27, 2006, follows:

(Reason 1)

- Claims 1, 2, 6, 7, 9, 12, 13, 23, 25 and 27
- Cited Literature 1
- Remarks

Paragraphs 0099 and 0089 of Cited Literature 1 describe a rest mode that is a state in which only a point-to-point protocol is maintained between a remote station and a base station and that conserves battery power of the remote station, wherein,

when the remote station is in rest mode,

the base station initially transmits a paging message on a paging channel (corresponding to providing notification of transmission/reception state change information to the mobile station in the invention of the present application);

upon receiving and recognizing the paging message, the remote station transmits a page response message (corresponding to the notification reception confirmation signal in the invention of the present application);

the base station transmits a channel assignment message (corresponding to control information for packet transmission in the invention of the present application);

the remote station changes from rest mode to traffic channel mode (corresponding to the active state in the invention of the present application);

and data transmission from the base station takes place.

- Claim 4
- Cited Literature 1
- Remarks

In the invention described in Cited Literature 1, in the state of conserving mobile station battery power, i.e. an intermittent reception state, that the base station stops data transmission until a specific timing arrives is described in paragraphs 0008 and 0009 of Japanese Unexamined Patent Application Publication H09-65423).

- Claim 5
- Cited Literature 1 and 2
- Remarks

Paragraphs 0052 and 0054 of Cited Literature 2 describe maintaining an active state when there is a decoding error in the wake-up PDU of a call signal during intermittent reception if there is a possibility that the wake-up PDU has the same MAC-ID as the MAC-ID of the MT in question.

- Claim 14
- Cited Literature 1
- Remarks

Paragraphs 0099 and 0089 of Cited Literature 1 describe a rest mode that is a state in which only a point-to-point protocol is maintained between a remote station and a base station and that conserves battery power of the remote station, wherein, when the remote station is in rest mode, the base station initially transmits a paging message on a paging channel (corresponding to providing notification of transmission/reception state change information to the mobile station in the invention of the present application);

upon receiving and recognizing the paging message, the remote station transmits a page response message;

the base station transmits a channel assignment message (corresponding to control information for the first data transmission in the invention of the present application);

the remote station changes from rest mode to traffic channel mode (corresponding to the active state in the invention of the present application);

and data (corresponding to the “first data” in the invention of the present application) transmission from the base station takes place.

- Claim 19
- Cited Literature 1
- Claim 20
- Cited Literature 1
- Claim 24
- Cited Literature 1
- Claims 26 and 28
- Cited Literature 1

#### List of Cited Literature

1. Published Japanese Translation of a PCT Application 2001-517049
2. Published Japanese Translation of a PCT Application 2002-541731

#### Prior art literature

Japanese Unexamined Patent Application Publication 2004-147050

Published Japanese Translation of a PCT Application 2003-517741

3GPP TS 25.308 High Speed Downlink Packet Access  
(HSDPA) Overall description Stage 2 (Release 5), 3GPP,  
V5.2.0, March 2002, p. 9–10

This record of prior art literature search results does not  
constitute a reason for rejection.

Document D1 is a U.S. counterpart of Document D7.

Document D2 is a U.S. counterpart of Document D9.

Document D4 is a U.S. counterpart of Document D8.

Documents D3, D5 and D6 are U.S. counterparts of Document D10.

Any document listed on the attached PTO/SB/08 was cited as being relevant during the prosecution of the corresponding Japanese application. An English translation of the foreign language documents is not readily available; however the absence of such translation does not relieve the PTO from its duty to consider the submitted foreign language documents (37 CFR §1.98 and MPEP §609). English language abstracts are attached.

Applicant's statements regarding the Japanese office action are based on a translation that applicant's representative obtained. These statements should in no way be considered as an agreement by applicants, with or an admission of, what is asserted in the Japanese office action.

Applicants respectfully request that each listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

#### **STATEMENT**

The undersigned hereby states in accordance with 37 CFR §1.704(d) that each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR §1.56(c) more than thirty days prior to the filing of the information disclosure statement.

The undersigned hereby states in accordance with 37 CFR §1.97(e)(1) that each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to filing of this Statement.

Although Applicant believes that no fee is required for this Request, the Commissioner is hereby authorized to charge any additional fees which may be required for this Request to Deposit Account No. 19-0741.

Respectfully submitted,

Date: October 17, 2007

By \_\_\_\_\_

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